

NEP OVER COAT - Qualified Products - List M for Protective Coatings for MAINTENANCE OVERCOATING of Previously Painted Existing Steel Bridges								
Nepcoat Product			Recom'd Coating DFT (min/max)		VOC (Delivered)		QPL Approval	
No.	Coats	PRODUCTS - TESTED AND ACCEPTED	mil	micron	lb/gal	g/L	Dates	
NEP OVER COAT -QPL- LIST M								
M1-99	(1A)	AMERON PROTECTIVE COATINGS					from	
	Primer	VyGuard 513F108 (M202) moisture cure urethane	2-3	50-75			5/7/03	
	Inter	----	---	---			until	
	Finish	V41 Series (M222) semi-gloss urethane topcoat	3-6	75-150			(note 8)	
M2-99	(2B)	AMERON PROTECTIVE COATINGS					from	
	Primer	VyGuard 17F118 (M50) alkyd primer	6-8	150-200			5/7/03	
	Inter	----	---	---			until	
	Finish	Amercoat 220 WB acrylic topcoat	2	50			(note 8)	
<u>Note:</u> In testing this product took days to cure.								
M3-99	(6F)	CARBOLINE COMPANY					from	
	Primer	Rust Bond HB (Carboguard 954 HB) 100% solids epoxy	5	125			5/7/03	
	Inter	Rust Bond HB (Carboguard 954 HB) 100% solids epoxy	3	75			until	
	Finish	Subsil 30 HS (Carbocoat 30) 30% silicone alkyd	2	50			(note 8)	
M4-99	(8H)	INTERNATIONAL PROTECTIVE COATINGS					from	
	Primer	Interthane 97 Aluminum moisture cure urethane primer	2-3	50-75			5/7/03	
	Inter	Interthane 45 MIO moisture cure urethane intermediate	3	75			until	
	Finish	Interthane 710 moisture cure urethane topcoat	3	75			(note 8)	
M5-99	(10K)	RUSTOLEUM					from	
	Primer	Rust-O-Thane 6780 zinc MIO moisture cure urethane	2-3	50-75			5/7/03	
	Inter	-----	---	---			until	
	Finish	9800 DTM Urethane mastic	3-5	75-125			(note 8)	
M6-99	(11L)	RUSTOLEUM					from	
	Primer	Rust-O-Crylic 5700 (Noxyde Plus) elast'c mastic acrylic	10	250			5/7/03	
	Inter	-----	---	---			until	
	Finish	Rust-O-Crylic 5700 (Noxyde Plus) elast'c mastic acrylic	10	250			(note 8)	
<u>Note:</u> In testing this product was difficult to apply with brush & roller and left pronounced brush & roller marks after drying.								
M7-99	(12M)	SHERWIN WILLIAMS					from	
	Primer	Corothane I Mastic MIO moisture cure urethane	2.5-3.5	62-88			5/7/03	
	Inter	-----	---	---			until	
	Finish	Corothane I Ironox A moisture cure urethane	2.5-3.5	62-88			(note 8)	

NEP OVER COAT - Qualified Products - List M

for Protective Coatings for

MAINTENANCE OVERCOATING of Previously Painted Existing Steel Bridges

Nepcoat Product			Recom'd Coating DFT (min / max)		VOC (Delivered)		QPL Approval
No.	Coats	PRODUCTS - TESTED AND ACCEPTED	mil	micron	lb/gal	g/L	Dates
NEP OVER COAT LIST M							
M8-99	(13N)	WASSER					from
	Primer	MC-Mio Aluminum MIO moisture cure urethane	1.5-2	38-50			5/7/03
	Inter	MC-Ferromastic MIO moisture cure urethane	3-5	75-125			until
	Finish	MC-Ferrox A MIO moisture cure urethane	2.5-3.5	62-88			(note 8)
<p>NOTES:</p> <ol style="list-style-type: none"> NEPCOAT is the NORTHEAST PROTECTIVE COATING COMMITTEE of CT, ME, MA, NH, NJ, NY, PA, RI, VT NEP OVER COAT is a three-year field testing program of the NEPCOAT committee for qualifying and accepting coating products for maintenance overcoating previously painted existing steel bridges. Corrosion Control Consultants & Labs, Inc. conducted the testing program, including surface preparation, coating application, and performance evaluations. The States provided salvage steel beams for testing at the following sites: Farmington, ME, Scarborough, ME, New Haven, CT, and New Castle, PA. Each product was applied to these surfaces: (a) intact existing coating; (b) surfaces hand tool cleaned (SP2) with chisel, wire brush, and scraper; (c) surfaces power tool cleaned (SP3) with needle gun, roto-peen, 3M Scotch-Brite™ Clean and Strip disk sander; (d) surfaces cleaned to SP11 condition with roto-peen; and (e) chloride-contaminated pre-rusted metal bar welded to the test beam and cleaned half to SP2 and half to SP3. All surfaces were first power washed at 3,500 psi with a rotating zero-degree nozzle and offset 4-6 inches from the surface. Each test panel was scribed (surface f). During the winter months all test patches were sprayed with 1% salt water. A roof shelter was built over half of the test panels. All coatings were applied by brush and roller (no spray) and according to manufacturer's recommendations. (Mx-99) products comply with NEPOVER COAT 99 Testing Program (5/19/99) & Acceptance Criteria (4/17/03). The VOC values are provided by the testing lab. NEPCOAT max limit (3.5 lb/gal). DFT values are from manufacturer. Any change in formulation of the product from that tested will result in removal of the product from the QPL. The term of QPL acceptance is provisional pending verification of compositional properties and future performance. 							
<p>ACCEPTANCE CRITERIA:</p> <ol style="list-style-type: none"> The acceptance criteria included the average results from all four state sites (except as noted) and these requirements: <ul style="list-style-type: none"> that surfaces (a)(b)(c)(d)(f) receive a (min.) rating of 9 out of 10 (Farmington, ME site excluded from (a)(b)(c)(f)); for surface (d) only the sheltered panels were included; that the power tool side of surface (e) receive a (min.) rating of 6.5 out of 10 (New Castle, PA site excluded). The performance ratings came from a CCC&L rating system. See note 3 above for description of surfaces. The suitability of applying the coating by brush and roller was noted but not required for acceptance. The final appearance was noted. Systems varied on gloss and color retention, and presence of brush and roller marks. 							
<p>COMMENTS:</p> <ol style="list-style-type: none"> It is important to properly evaluate the condition of the existing coating to determine suitability for overcoating. See the reference SSPC-TU 3, Overcoating. Power washing is suggested. Clean surfaces of chloride contaminants. Test for chlorides following surface preparation. Coatings performed better with greater surface preparation (e.g. SP11 > SP3). SP2 hand tool preparation is not suggested. Apply the coating product according to the coating manufacturer's recommendations. 							